

Margherita Zavelani-Rossi

List of Publications by Year in descending order

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105
papers

3,597
citations

94269

37
h-index

143772

57
g-index

105
all docs

105
docs citations

105
times ranked

4473
citing authors

#	ARTICLE	IF	CITATIONS
1	Gram-scale synthesis of carbon quantum dots with a large Stokes shift for the fabrication of eco-friendly and high-efficiency luminescent solar concentrators. <i>Energy and Environmental Science</i> , 2021, 14, 396-406.	15.6	174
2	Plasmon Dynamics in Colloidal Cu ₂ Se Nanocrystals. <i>Nano Letters</i> , 2011, 11, 4711-4717.	4.5	158
3	Ultrafast Electron-Hole Dynamics in Core/Shell CdSe/CdS Dot/Rod Nanocrystals. <i>Nano Letters</i> , 2008, 8, 4582-4587.	4.5	146
4	Pulse compression over a 170-THz bandwidth in the visible by use of only chirped mirrors. <i>Optics Letters</i> , 2001, 26, 1155.	1.7	125
5	Lasing in self-assembled microcavities of CdSe/CdS core/shell colloidal quantum rods. <i>Nanoscale</i> , 2010, 2, 931.	2.8	120
6	Optical properties of waveguides written by a 26 MHz stretched cavity Ti:sapphire femtosecond oscillator. <i>Optics Express</i> , 2005, 13, 612.	1.7	115
7	Amplified spontaneous emission and efficient tunable laser emission from a substituted thiophene-based oligomer. <i>Applied Physics Letters</i> , 2002, 81, 3534-3536.	1.5	103
8	Suppression of Biexciton Auger Recombination in CdSe/CdS Dot/Rods: Role of the Electronic Structure in the Carrier Dynamics. <i>Nano Letters</i> , 2010, 10, 3142-3150.	4.5	97
9	Engineering interfacial structure in CdSe/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	8.2	88
10	Plasmonics in heavily-doped semiconductor nanocrystals. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	76
11	Ultrafast carrier dynamics in core and core/shell CdSe quantum rods: Role of the surface and interface defects. <i>Physical Review B</i> , 2005, 72, .	1.1	72
12	Triplet-Exciton Generation Mechanism in a New Soluble (Red-Phase) Polydiacetylene. <i>Physical Review Letters</i> , 2001, 87, .	2.9	71
13	Near-field second-harmonic generation in single gold nanoparticles. <i>Applied Physics Letters</i> , 2008, 92, 093119.	1.5	70
14	Ultrafast Förster transfer dynamics in tetraphenylporphyrin doped poly(9,9-dioctylfluorene). <i>Chemical Physics Letters</i> , 2001, 335, 27-33.	1.2	66
15	Single-mode picosecond blue laser emission from a solid conjugated polymer. <i>Applied Physics Letters</i> , 1998, 73, 2860-2862.	1.5	65
16	Lasing from all-polymer microcavities. <i>Laser Physics Letters</i> , 2014, 11, 035804.	0.6	65
17	Evidence for the Band-Edge Exciton of CuInS ₂ Nanocrystals Enables Record Efficient Large-Area Luminescent Solar Concentrators. <i>Advanced Functional Materials</i> , 2020, 30, 1906629.	7.8	65
18	Excitonic pathway to photoinduced magnetism in colloidal nanocrystals with nonmagnetic dopants. <i>Nature Nanotechnology</i> , 2018, 13, 145-151.	15.6	64

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19	Full temporal resolution of the two-step photoinduced energyâ€“electron transfer in a fullereneâ€“oligothiopheneâ€“fullerene triad using sub-10 fs pumpâ€“probe spectroscopy. Chemical Physics Letters, 2001, 345, 33-38.	1.2	62
20	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. ACS Photonics, 2015, 2, 521-529.	3.2	62
21	Multiwatt, tunable, diode-pumped CW Yb:GdCOB laser. Applied Physics B: Lasers and Optics, 2001, 72, 389-393.	1.1	60
22	Early events of energy relaxation in all-trans-Î²-carotene following sub-10 fs optical-pulse excitation. Physical Review B, 2001, 63, .	1.1	60
23	Effect of Core/Shell Interface on Carrier Dynamics and Optical Gain Properties of Dual-Color Emitting CdSe/CdS Nanocrystals. ACS Nano, 2016, 10, 6877-6887.	7.3	57
24	Coherent Dynamics of Photoexcited Green Fluorescent Proteins. Physical Review Letters, 2001, 86, 3439-3442.	2.9	56
25	Subâ€“Micrometer Charge Modulation Microscopy of a High Mobility Polymeric nâ€“Channel Fieldâ€“Effect Transistor. Advanced Materials, 2011, 23, 5086-5090.	11.1	55
26	Dual emission in asymmetric â€“giantâ€“PbS/CdS/CdS core/shell/shell quantum dots. Nanoscale, 2016, 8, 4217-4226.	2.8	54
27	Two-step mechanism for the photoinduced intramolecular electron transfer in oligo(p-phenylene) Tj ETQq1 1 0.784314 rgBT /Overloc	1.1	53
28	Ultrafast optical excitations of metallic nanostructures: from light confinement to a novel electron source. New Journal of Physics, 2007, 9, 397-397.	1.2	50
29	Distributed Feedback Lasing from a Composite Poly(phenylene vinylene)â€“Nanoparticle One-Dimensional Photonic Crystal. Nano Letters, 2009, 9, 4273-4278.	4.5	48
30	Selfâ€“assembled CdSe/CdS nanorod microâ€“lasers fabricated from solution by capillary jet deposition. Laser and Photonics Reviews, 2012, 6, 678-683.	4.4	47
31	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu₂â€“<i>x</i></sub>Se Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 3337-3344.	2.1	47
32	Single-mode tunable organic laser based on an electroluminescent oligothiophene. Applied Physics Letters, 2001, 79, 4082-4084.	1.5	42
33	Monolithic polymer microcavity lasers with on-top evaporated dielectric mirrors. Applied Physics Letters, 2006, 88, 121110.	1.5	42
34	Highly efficient second-harmonic nanosource for near-field optics and microscopy. Optics Letters, 2004, 29, 62.	1.7	40
35	Photophysics of conjugated polymers: the contribution of ultrafast spectroscopy. Physica Status Solidi A, 2004, 201, 1116-1131.	1.7	39
36	Role of the shell thickness in stimulated emission and photoinduced absorption inCdSecore/shell nanorods. Physical Review B, 2006, 73, .	1.1	39

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37	Influence of the orientation of liquid crystalline poly(9,9-dioctylfluorene) on its lasing properties in a planar microcavity. <i>Applied Physics Letters</i> , 2002, 80, 4088-4090.	1.5	38
38	Two-Photon Poly(phenylenevinylene) DFB Laser. <i>Chemistry of Materials</i> , 2011, 23, 805-809.	3.2	36
39	Amplified spontaneous emission from core and shell transitions in CdSe/CdS nanorods fabricated by seeded growth. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	35
40	Advanced laser-driven ion sources and their applications in materials and nuclear science. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014022.	0.9	35
41	Mode locking by cascading of second-order nonlinearities. <i>IEEE Journal of Quantum Electronics</i> , 1998, 34, 61-70.	1.0	34
42	The role of amplified spontaneous emission in the ultrafast relaxation dynamics of polymer films. <i>Chemical Physics Letters</i> , 1998, 289, 205-210.	1.2	33
43	Hollow-pyramid based scanning near-field optical microscope coupled to femtosecond pulses: A tool for nonlinear optics at the nanoscale. <i>Review of Scientific Instruments</i> , 2009, 80, 033704.	0.6	30
44	Ultrasmall Nanoplatelets: The Ultimate Tuning of Optoelectronic Properties. <i>Advanced Energy Materials</i> , 2017, 7, 1602728.	10.2	30
45	Amplified spontaneous emission from a soluble thiophene-based oligomer. <i>Applied Physics Letters</i> , 2001, 78, 2679-2681.	1.5	29
46	Characterization of femtosecond light pulses coupled to hollow-pyramid near-field probes: Localization in space and time. <i>Applied Physics Letters</i> , 2005, 86, 031105.	1.5	29
47	Ultrafast optical switching in distributed feedback polymer laser. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	28
48	High-power diode-pumped Yb:GdCOB laser: from continuous-wave to femtosecond regime. <i>Optical Materials</i> , 2002, 19, 73-80.	1.7	27
49	Few-optical-cycle laser pulses by OPA: broadband chirped mirror compression and SPIDER characterization. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, s245-s251.	1.1	26
50	Transient Species Mediating Energy Transfer to Spin-Forbidden Mn d States in II-VI Semiconductor Quantum Dots. <i>ACS Energy Letters</i> , 2019, 4, 729-735.	8.8	26
51	Ultrafast light-emission processes in poly(para-phenylene)-type ladder polymer films. <i>Physical Review B</i> , 1999, 59, 11328-11332.	1.1	25
52	Colloidal Synthesis of Bipolar Off-Stoichiometric Gallium Iron Oxide Spinel-Type Nanocrystals with Near-IR Plasmon Resonance. <i>Journal of the American Chemical Society</i> , 2017, 139, 1198-1206.	6.6	25
53	Laser dynamics in organic distributed feedback lasers. <i>Applied Physics Letters</i> , 2006, 89, 181105.	1.5	23
54	Effects of morphology and optical contrast in organic distributed feedback lasers. <i>Applied Physics Letters</i> , 2007, 90, 111110.	1.5	22

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55	Control of thermal effects for high-intensity Ti:sapphire laser chains. Applied Physics B: Lasers and Optics, 2000, 70, S193-S196.	1.1	20
56	Modulating Exciton Dynamics in Composite Nanocrystals for Excitonic Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2489-2495.	2.1	20
57	Evidence of Plasmon Enhanced Charge Transfer in Large Area Hybrid Au ² MoS ₂ Metasurface. Advanced Optical Materials, 2020, 8, 2000653.	3.6	20
58	Real-time observation of coherent nuclear motion in polydiacetylene isolated chains. Physical Review B, 2004, 69, .	1.1	19
59	Ultrafast Exciton Dynamics in Colloidal CdSe/CdS Octapod Shaped Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 9005-9011.	1.5	19
60	Sub-10 fs time resolved study of excited state relaxation in all-trans- β -carotene. Synthetic Metals, 2001, 116, 1-3.	2.1	18
61	Harvesting Delayed Fluorescence in Perovskite Nanocrystals Using Spin-Forbidden Mn d States. ACS Energy Letters, 2020, 5, 353-359.	8.8	18
62	Organic laser based on thiophene derivatives. Synthetic Metals, 2003, 139, 901-903.	2.1	17
63	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS ₂ Sheets. ACS Photonics, 2018, 5, 3363-3371.	3.2	17
64	Quantized Electronic Doping towards Atomically Controlled "Charge-Engineered" Semiconductor Nanocrystals. Nano Letters, 2019, 19, 1307-1317.	4.5	17
65	Intrinsic and Extrinsic Exciton Recombination Pathways in AgInS ₂ Colloidal Nanocrystals. Energy Material Advances, 2021, 2021, .	4.7	15
66	Dual emission and optical gain in PbS/CdS nanocrystals: Role of shell volume and of core/shell interface. Physical Review B, 2017, 96, .	1.1	14
67	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. Physical Review B, 2002, 66, .	1.1	13
68	High-resolution imaging of local oxidation in polyfluorene thin films by nonlinear near-field microscopy. Applied Physics Letters, 2007, 91, 191118.	1.5	13
69	Band-edge ultrafast pump-probe spectroscopy of core/shell CdSe/CdS rods: assessing electron delocalization by effective mass calculations. Physical Chemistry Chemical Physics, 2012, 14, 7420.	1.3	12
70	Ultra-fast spectroscopy and extreme nonlinear optics by few-optical-cycle laser pulses. Applied Physics B: Lasers and Optics, 2000, 71, 779-786.	1.1	10
71	Sub-10 fs excited state evolution in polycarbazolyldiacetylene-polyethylene blends. Synthetic Metals, 2001, 116, 57-60.	2.1	10
72	Mapping local field enhancements at nanostructured metal surfaces by second-harmonic generation induced in the near field. Journal of Microscopy, 2008, 229, 233-239.	0.8	10

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73	Imaging the Electric Field Distribution in Organic Devices by Confocal Electroreflectance Microscopy. <i>Advanced Functional Materials</i> , 2009, 19, 1180-1185.	7.8	10
74	Retrieving the complex polarizability of single plasmonic nanoresonators. <i>Physical Review B</i> , 2009, 80, .	1.1	10
75	Evidence of electron wave function delocalization in CdSe/CdS asymmetric nanocrystals. <i>Superlattices and Microstructures</i> , 2010, 47, 170-173.	1.4	10
76	Nd:YVO4 laser mode locked by cascading of second order nonlinearities. <i>Optics Communications</i> , 1998, 152, 45-48.	1.0	9
77	Role of defect states on Auger processes in resonantly pumped CdSe nanorods. <i>Applied Physics Letters</i> , 2007, 91, 093106.	1.5	9
78	Steady-state photoinduced absorption of CdSe/CdS octapod shaped nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15326.	1.3	9
79	Ultrafast carrier dynamics and confined acoustic phonons in CdSe nanorods. <i>Journal of Optics</i> , 2008, 10, 064004.	1.5	8
80	Stimulated emission dynamics in a hexacatenar liquid crystal. <i>Synthetic Metals</i> , 2001, 121, 1323-1324.	2.1	7
81	Kinetics of interfacial charges in hybrid GaAs/oligothiophene semiconducting heterojunctions. <i>Applied Physics Letters</i> , 2007, 91, 122113.	1.5	7
82	Near-field second-harmonic generation from gold nanoellipsoids. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2657-2661.	0.8	7
83	Pulsed laser deposition of carbon nanofoam. <i>Applied Surface Science</i> , 2022, 599, 153859.	3.1	7
84	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS ₂ Nanosheets. <i>Advanced Optical Materials</i> , 2021, 9, 2001408.	3.6	6
85	Photoexcitation of conjugated systems studied with sub-10 fs time resolution. <i>Synthetic Metals</i> , 2001, 119, 491-494.	2.1	5
86	Mapping local field distribution at metal nanostructures by near-field second-harmonic generation. <i>Proceedings of SPIE</i> , 2007, , .	0.8	5
87	Influence of environment on the excited state deactivation in functionalized quinquethienyl in solution. <i>Synthetic Metals</i> , 2001, 119, 617-618.	2.1	3
88	Nonlinear optics and spectroscopy at the nanoscale with a hollow-pyramid aperture SNOM. <i>Journal of Physics: Conference Series</i> , 2007, 61, 125-129.	0.3	3
89	Waveguides in Ti:LiNbO ₃ for second-harmonic generation: design and experimental tests. , 1996, , .		2
90	Perturbative analysis of transverse effects of $\chi^{(2)}$ cascading in resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 2929.	0.9	2

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91	Probing of bound electron-hole-pairs by optical re-excitation in a short-chain oligomer. Chemical Physics Letters, 2003, 381, 751-758.	1.2	2
92	Low threshold tunable lasing from a new substituted thiophene-based oligomer. Synthetic Metals, 2003, 137, 1485-1486.	2.1	2
93	Study of higher-energy core states in CdSe/CdS octapod nanocrystals by ultrafast spectroscopy. European Physical Journal B, 2012, 85, 1.	0.6	2
94	Optical and Magneto-Optical Properties of Donor-Bound Excitons in Vacancy-Engineered Colloidal Nanocrystals. Nano Letters, 2021, 21, 6211-6219.	4.5	2
95	Ultrafast photoexcitation dynamics in a ladder-type oligophenyl. Synthetic Metals, 2001, 119, 609-610.	2.1	1
96	Femtosecond near-field optical microscope for nonlinear nanospectroscopy. , 2005, , .		1
97	Ultrafast carrier dynamics in spherical CdSe core/elongated CdS shell nanocrystals. Springer Series in Chemical Physics, 2009, , 289-291.	0.2	1
98	High Intensity Lasers for nuclear and physical applications. , 2020, , .		1
99	Ultrafast Photophysics in Conjugated Polymers. , 2006, , 129-151.		0
100	Ultrafast optical modulation of polymer nano-structured lasers. , 2008, , .		0
101	Ultrafast electron-hole dynamics and optical gain in CdSe/CdS nanorods. , 2009, , .		0
102	Ultrafast Photonics in Polymer Nanostructures. , 2009, , 251-310.		0
103	Tuning the transient opto-electronic properties of few-layer MoS2 nanosheets via substrate nano-patterning. EPJ Web of Conferences, 2020, 238, 07006.	0.1	0
104	(Invited) Ultrafast Exciton Dynamics in Semiconductor Nanocrystals: Effects on Single Vs Dual Emission and on Optical Gain. ECS Meeting Abstracts, 2020, MA2020-01, 1100-1100.	0.0	0
105	(Invited) Ultrafast Spectroscopy in Semiconductor Nanocrystals: Revealing the Origin of Single Vs Double Emission, of Optical Gain and the Role of Dopants. ECS Meeting Abstracts, 2022, MA2022-01, 1104-1104.	0.0	0